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University of Kentucky

COMMERCIAL FEEDING STUFFS IN KENTUCKY IN 1924

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BULLETIN NO. 257

Commercial Feeding Stuffs in Kentucky in 1924.

By J. D. TURNER, H. D. SPEARS and W. G. TERRELL.*

Kentucky feeders of live stock, during the year 1924, purchased more than 270,000 tons of commercial feeds, at an estimated retail price close to $15,000,000.00. Of this amount, about 30% was produced in Kentucky and 70% was imported into the State. The price paid for commercial feeds alone, not including whole grains and hays consumed in the State, based on the 1920 U. S. Census, equals about one-tenth the value of the total live stock in the State; or about two-fifths the value of the horses; a little less than half the value of the mules; almost equal the value of the beef cattle; a little less than half the value of the dairy cattle; twice the value of the sheep; about equal the value of the swine; and almost double the value of the poultry.

These feeds are grouped according to class and tonnage:

Dairy feeds	38,105 tons
Horse feeds	26,595 tons
Ground barley and oats	125 tons
Corn and oat chop	225 tons
Stock feeds	5,720 tons
Poultry grains	32,070 tons
Poultry mash	10,910 tons
Calf meal	525 tons
Hog feed	785 tons
Mixed feeds (corn and wheat by-products)	38,520 tons
Mixed wheat feed	28,570 tons

*Acknowledgment.—The writers take pleasure in acknowledging the efficient work of R. W. Jones, R. E. Tolle and Fred W. Fitschen, inspectors, who made the official inspections and collected samples for analysis.

Miscellaneous mixed wheat feeds	7,090 tons
Wheat middlings or shorts	21,680 tons
Wheat bran	9,760 tons
Corn feed meal	2,388 tons
Cracked corn, chop, etc.	22,515 tons
Cottonseed meal—all grades	13,725 tons
Linseed oil meal	1,355 tons
Hominy feed	5,720 tons
Tankage	1,155 tons
Meat meal, meat scraps, etc.	1,205 tons
Ground oats	760 tons
Ground barley	262 tons
Red dog	498 tons
Barley feed	125 tons
Brewers' grains	250 tons
Alfalfa meal	250 tons
Ground wheat	225 tons
Dried beet pulp	325 tons
Crushed ear corn	175 tons
Oat by-product	175 tons
Corn germ oil meal	325 tons
Miscellaneous	500 tons

The plan of conducting the work of the Department of Feed Control is two-fold: educational and regulatory. From an educational standpoint, the department has never been more in demand for information on feeds, their preparation and use, by both the feeder and manufacturer, than at the present time. The feeder is seeking to know the needs of his animals and the manufacturer is studying the requirements of the feeder and is endeavoring to meet those requirements in the products he makes. The general spirit of cooperation of the manufacturer and the feeder has never been better in the feed control service of the State. The educational development has been progressing steadily and this is the happy and pleasant side of the work. On the other hand, the control end is not without its dark and unpleasant side. From what follows it will be noted that it is often necessary for the department to call into action the force of the law that the interest of the feeder and honest manufacturer may be protected and the interest of the industry itself. During 1924, many shipments were held from the market pend-

ing labeling adjustments, some shipments were withdrawn on account of irregularities and twenty-five prosecutions were instituted for adulteration, misbranding and other infractions of the law.

There are many low-grade feeds on the Kentucky market due largely to competition between manufacturers and the willingness of feeders to buy cheap feeds. Many of the leading manufacturers say they are forced, against their own wishes, to put out cheap feeds because of the competition with other manufacturers using low-grade products. There is always an element in the feed business that will take chances with questionable practices in manufacturing cheap feeds and the honest manufacturer is inclined to make a similar class of feeds to meet this competition. The feeder is easily caught by some fancy name and slightly less price than the cost of a good, substantial well-balanced feed. Often he pays about the same price for low-grade materials, such as oat hulls, ground hays, elevator sweepings and dust, cottonseed hulls, clipped oat by-product, barley hulls, flax plant by-product and grain screenings in his feeds, as he does for high-grade materials. As long as he continues to make his purchases on name and price rather than on quality, cheap feeds will be made for him and he will continue to pay dearly.

Some of the adulterants used in feeds are not important enough commercially in Kentucky, to influence materially the quality of feeds. Some of these materials are ground corn stalks, barley hulls, buckwheat hulls, sorghum bagasse and ground straws. There are other adulterants that are commonly used in some sections of the country but do not appear frequently in Kentucky feeds. These are peanut hulls, rice hulls, cottonseed hulls, ground corn cob and cocoa shells. There is, however, quite a list of adulterants used in feeds sold in Kentucky. These are materials like flax plant by-product or refuse, oat hulls, in some form or another, as oat feed or clipped-oat by-product, elevator dust and sweepings and the so-called "grain screenings" under the guise of which and thru which all kinds of fibrous materials and refuse are used.

Flax plant by-product is produced from flax in the manufacture of rugs. It is a very fibrous material composed largely of flax stems and some flax pods and seeds. It resembles alfalfa meal and is often used as a substitute for that product. It has about the same feeding value as timothy hay. Analyses of the different lots range from 6.50% to 8.75% protein, 2.2% to 3.45% fat and 37.45% to 44.50% fiber.

Oat hulls are familiar to most every feeder. They make their appearance in feeds usually in the form of oat feed, clipped oat by-product and screenings. They are a fibrous material and the average analysis shows something like 3.7% protein, 1.8% fat and 29.5% fiber.

Clipped-oat by-product comes from grain elevators and oatmeal mills. It is produced by clipping oats to increase their weight for commercial purposes, as heavy oats command a better price. At grain elevators and oatmeal mills, by means of machines known as "clippers," the light ends and part of the hulls are broken off and this material, including the chaff and the other residues from the clipping process, is collected and is known commercially as "clipped-oat by-product." It varies in chemical composition, the average being about 6.8% protein, 2% fat and 28% fiber. It is a good absorbent of molasses and is frequently used in feeds containing molasses.

Elevator dust and sweepings are accumulations of dust, cleanings, grain hairs, sweepings and such materials from cleaning grains in elevators, separating machines and mills. It is light and fluffy in appearance and contains the floor sweepings and grain cleanings, and consequently varying amounts of dirt. It varies in physical and chemical composition and has no standard of quality. It is used directly to adulterate feeds and is used also in mixing with other materials such as screenings to adulterate feeds. It has such a complex nature that it is a very difficult matter to detect its presence in a feed composed of a number of materials and especially feeds containing screenings.

"Grain screenings" is a broad expression used to cover a product which varies greatly in both chemical and physical composition. There is no grade or standard for screenings. This

product varies so widely in composition that some lots are high in feeding value while others are low and questionable as feed materials. Elevators at grain stations often "re-work" the screenings by putting them thru several processes of separation. The grains—sound, broken and shriveled—are removed. The remainder is separated into wild mustard, wild buckwheat, weed seeds, chaff and foreign matter. The materials are then disposed of in various ways. The grain usually is sold for use in poultry feeds. The mustard is sold to crushers for its oil content. The chaff, weed seeds and wild buckwheat are ground and sold to feed manufacturers for use in stock feeds. Investigations by the department show that screenings, in most every instance and in whatever form of separation, are sold under the names of "grain screenings" or "ground and bolted grain screenings" or "recleaned ground and bolted grain screenings." Investigations also show that these screenings vary in quality very much, both chemically and physically, ranging from a very wholesome material to worthless and even dangerous as a feed. For example, examinations of some lots of screenings showed them to contain only a few weed seeds and little foreign matter; others 25 to 30% weed seeds; while others contained still higher proportions and some were made up entirely of weed seeds and foreign matter. Many lots of screenings contain poisonous weed seeds and, of course, are dangerous to feed to stock in appreciable amounts.

The main objection to the use of screenings is the illegal manner in which they are used. All sorts of materials, such as elevator dust, sweepings, hulls of various kinds, refuse and waste and other fibrous materials are used even to adulterate screenings and the entire product, finely ground, is sold under the name of "grain screenings," or "ground and bolted grain screenings." As long as the feeder will buy cheap and trashy feeds and pay a price for them all out of proportion to that of a good honest feed, these feeds will be made and offered to the public.

A feeder should carefully study the requirements of his animals and select his feeds to meet these requirements. He

should buy his feeds from reputable concerns and see that they are labeled with a Kentucky official label. The following suggestions will be helpful to those who are doubtful as to the needs of their animals and what will supply those needs:

1. Ascertain what the animals need and what will supply these needs, as no animal will give good results without proper food.
2. If in doubt as to what the animals need, consult the Experiment Station.
3. Buy no commercial feed that is not registered and tagged with a Kentucky official tag. Note carefully the system of tagging.
4. Read and study carefully the information given on the official tag.
5. High-grade feeds are the most economical.
6. Many commercial feeds sold in Kentucky are cheap, inferior and unbalanced, and do not supply the animal with proper nourishment, thus resulting in a hardship to the animal and a loss to the owner as well.
7. The value of a feed depends upon that portion of the nutrient which an animal, under ordinary conditions, can digest and take into its system for building up the growth, keeping up the heat and energy and repairing the natural waste of the body.
8. An excessive amount of food not only overtaxes the digestive organs and invites disease, but is an absolute waste as well.
9. An insufficient amount of nutrients causes loss by producing debility from want of necessary nutrition, and thus causes inability to perform the desired amount of work.
10. Unless the food is properly balanced, one set of tissues will receive an abundance of nourishment, while another set, which may be of more importance, will not receive a sufficient amount.
11. The kind and character of feed an animal requires depends entirely upon the use to which that animal is going to put the food.
12. The amount of crude protein, fat and fiber in a feed serves only as a general guide in selecting a feeding stuff. The buyer should base his final conclusion on the source, character and amount of digestible nutrients.
13. Cane molasses often makes an excellent addition to a feed, giving both added food value and palatability, but it is used too frequently for the purpose of covering up adulterants (cheap and trashy materials) in mixed feeds and in what are commonly called "sweet' or "molasses feeds."
14. For further information, see standard textbooks on feeds and feeding or Kentucky Experiment Station Bulletin No. 249.

EXPLANATION.

In previous bulletins of the department the results have been compiled into tables and each kind of feed grouped according to its class and character. In publishing the results of analyses, the manufacturers' guaranties were published alongside of our findings so that comparisons could be made. This has appeared to be the most comprehensive way of issuing the results. However, the bulletins have become so bulky that to continue this method makes too large and cumbersome a volume to distribute freely thru the mails. It has been thought best, therefore, to try another method of reporting the results in less voluminous form, that would be fair to all concerned.

The names of the manufacturers whose feeds have been analyzed are given in alphabetical order in the following pages. The results are summarized without stating percentages found by analysis. If a brand of feed was found to be up to the standard guaranteed, or even exceeded it, the term "equaled guaranty" is used. In the same manner, if a feed is not up to the standard guaranteed, the results are summarized in statements like the following: "too low in protein," "too low in fat," "too high in fiber," "adulterated," "misbranded," "list of ingredients not as guaranteed," and other brief statements of facts.

Acme-Evans Co., Indianapolis, Ind. Inspection samples analyzed, 20.

Acme Feed, 9; all but 1 equaled chemical guaranty; 2 contained oat hulls.

Acme Ground Oats, 3; too high in fiber and made of low-grade oats.

Acme Middlings and Screenings, 2; equaled guaranty.

Producer Chop, 2; adulterated and below guaranty in every respect.

Acme Cracked Corn, 1; equaled guaranty.

Acme Stock Feed, 1; adulterated and below guaranty in every respect.

Acme Hominy Feed, 1; equaled guaranty.

E-Z Scratch Feed, 1; buckwheat added.

The Acme Mills, Hopkinsville, Ky. Inspection samples analyzed, 5.

Wheat Shorts, 1; equaled guaranty.

Supreme Hog Feed, 1; equaled guaranty.

Butternut Dairy Feed, 1; equaled guaranty.
Ky.'s Choice Mixed Wheat Feed, 1; equaled guaranty.
Heavy Work Horse & Mule Feed, 1; equaled guaranty.

Adairville Milling Co., Adairville, Ky. Inspection samples of shipstuff analyzed, 3; all too low in protein.

Alba Manufacturing Co., Aurora, Ill. Inspection sample of Alba Blood analyzed, 1; no guaranty; sample showed 91.38% protein.

Alfocorn Milling Co., St. Louis, Mo. Inspection samples analyzed, 5.
Diamond X Scratch Feed, 1; oats, rye, buckwheat and weed seeds added.
Diamond "D" Scratch Feed, 1; oats and rye added.
Red Dot Scratch Feed, 1; oats, rye, wheat, and weed seeds added; no kaffir nor milo present.
Full Pail Dairy Feed, 1; ingredients not as guaranteed; no brewers' grains, corn gluten feed or rice bran; oat hulls and weed seeds added.
Ambrosia Horse & Mule Feed, 1; equaled guaranty.

The Allen & Wheeler Co., Troy, O. Inspection samples analyzed, 2.
Trojan Middlings and Screenings, 1; equaled guaranty.
A-1 Farm Feed, 1; equaled guaranty.

American Hominy Co., Indianapolis, Ind. Inspection sample of Homco Hominy Feed analyzed, 1; equaled guaranty.

The American Linseed Co., Chicago, Ill. Inspection samples of Old Process Oil Meal analyzed, 2; equaled guaranty.

American Milling Co., Peoria, Ill. Inspection samples analyzed, 10.
Sucrene Dairy Feed, 2; equaled chemical guaranty but contained excess oat hulls and weed seeds.
American Dairy Ration, 1; equaled guaranty.
Sucrene Horse Feed, 2; 1 equaled guaranty but the other was misbranded as to ingredients.
Kick-A-Poo Horse Feed, 1; below guaranty and misbranded as to ingredients.
Tip Top Scratch Feed, 1; only trace of sunflower seed.
Union Feed, 1; contained weed seeds.
Tip Top Sugared Feed, 2; 1 equaled guaranty, but the other misbranded as to the ingredients.

The Ansted & Burk Co., Springfield, O. Inspection samples analyzed, 5.
Virginia Farm Feed, 1; equaled guaranty.
Humpty Dumpty Poultry Mash, 1; equaled guaranty.
K. D. Feed Meal, 1; too low in protein.
H. D. Scratch Feed, 1; equaled guaranty.
Middlings and Screenings, 1; equaled guaranty.

Arcady Farms Milling Co., Chicago, Ill. Inspection samples of Sunkist Scratch Feed analyzed, 2; adulterated with weed seeds 10 and 25%; only traces of oats, kaffir and sunflower seed.

Archer-Daniels Linseed Co., Minneapolis, Minn. Inspection samples of Old Process Ground Oil Cake analyzed, 2; one equaled guaranty; the other too low in protein.

Armour Fertilizer Works, Chicago, Ill. Inspection samples analyzed, 3.
Armour's 60% Meat Meal, 2; equaled guaranty.
Blood Meal, 1; equaled guaranty.

Ashland Milling Co., Ashland, Ky. Inspection samples of Eureka Feed analyzed, 2; 1 contained oat hulls and too low in fat; the other equaled guaranty.

W. J. Askew & Co., Georgetown, Ky. Inspection sample of "Ask-U" Dairy Feed analyzed, 1; equaled guaranty.

Aubrey & Co., Louisville, Ky. Inspection samples analyzed, 13.
Red "A" Horse Feed, 1; too low in fat.
85% Grain Horse Feed, 2; equaled guaranty.
95% Grain Horse Feed, 1; equaled guaranty.
Dandy Horse Feed, 2; too low in protein and fat.
Blackhawk Feed, 1; weed seeds added.
Blackhawk Mixed Wheat Feed, 1; too low in protein and contained weed seeds.
Aubrey's Wheat Bran, 1; weed seeds added.
Dandy Dairy Feed, 1; ingredients not as guaranteed; weed seeds added; misbranded.
Hominy Feed, 1; sample corn feed meal; misbranded.
Aubrey's Brewers' Grains, 1; too low in protein and too high in fiber.
Rice Bran, 1; equaled guaranty.

The Auburn Mills, Auburn, Ky. Inspection samples analyzed, 2.
Shorts, 1; too low in protein and fat.
Mill Run Feed, 1; equaled guaranty.

Aviston Milling Co., Aviston, Ill. Inspection sample of "Rich As Gold" analyzed, 1; equaled guaranty.

J. J. Badenoch Co., Chicago, Ill. Inspection samples analyzed, 4.
Honey Bee Dairy Feed, 2; equaled guaranty.
C-Em-Grow Hog Feed, 1; equaled guaranty.
Velvet Horse Feed, 1; too high in fiber; weed seeds added.

Ballard & Ballard Co., Louisville, Ky. Inspection samples analyzed, 5.
Kentucky Farm Feed & Screenings, 3; equaled guaranty.
Mixed Wheat Feed & Screenings, 1; equaled guaranty.
Red Mule Feed, 1; equaled guaranty.

Baskett Grain Co., Henderson, Ky. Inspection samples analyzed, 3.
Wheat Middlings and Screenings, 1; equaled guaranty.
Uncle Tom's Mixed Feed, 1; equaled guaranty.
Purity Egg Mash, 1; equaled guaranty.

J. H. Baughman & Co., Stanford, Ky. Inspection sample of Baughman's Hen Feed analyzed, 1; too low in fat.

W. C. Binns, Herndon, Ky. Inspection sample of Eclipse Hog Feed analyzed, 1; too low in fat.

Bisbee Linseed Co., Chicago Heights, Ill. Inspection sample of 34% Oil Meal analyzed, 1; equaled guaranty.

Black & White Milling Co., E. St. Louis, Ill. Inspection samples analyzed, 9.
- Cock O' the Walk Scratch Feed, 2; both samples misbranded as to ingredients.
- 16½% Dairy Feed, 1; excess of oat hulls; too low in protein.
- Wheat Middlings and Screenings, 1; equaled guaranty.
- Scratch Feed, 1; rye and oats added.
- Horse Feed, 4; 2 too low in protein.

The Blake Milling Co., Edwardsville, Ill. Inspection sample of Winter Wheat Mixed Feed and Screenings analyzed, 1; equaled guaranty.

Blachford Calf Meal Co., Waukegan, Ill. Inspection sample of Blatchford's Calf Meal analyzed, 1; equaled guaranty.

Blish Milling Co., Seymour, Ind. Inspection samples of Bull's Eye Mixed Wheat Feed analyzed, 4; equaled guaranty.

Bluegrass-Elmendorf Grain Corporation, Lexington, Ky. Inspection samples analyzed, 4.
- "Bluegrass" Peerless Cow Feed, 3; 2 too low in protein; all too low in fat.
- "Bluegrass" Tango Horse Feed, 1; too low in protein.

Boston Flour Mills, Boston, Ky. Inspection samples of Mixed Feed analyzed, 3; 2 too low in protein.

Bowling Green Milling Co., Bowling Green, Ky. Inspection sample of Mixed Feed analyzed, 1; too low in protein.

Boyle Roller Mills, Junction City, Ky. Inspection samples of Mixed Feed analyzed, 2; equaled guaranty.

C. S. Brent Seed Co., Lexington, Ky. Inspection sample of Kackle Scratch Feed analyzed, 1; too low in protein.

F. W. Brode Corporation, Memphis, Tenn. Inspection sample of Owl Brand 41% Cottonseed Meal analyzed, 1; too low in protein and too high in fiber.

Chas. Broeker & Co., Owensboro, Ky. Inspection samples analyzed, 3.
- Mixed Feed, 1; equaled guaranty.
- Hominy Feed, 2; too low in protein.

Buckeye Cotton Oil Co., Cincinnati, O. Inspection samples of 36% Cottonseed Feed analyzed, 3; 1 too low in protein; all dark color.

Burnside Roller Mills, Burnside, Ky. Inspection sample of Mixed Feed analyzed, 1; much too low in protein.

Cadick Milling Co., Grandview, Ind. Inspection samples analyzed, 4.
- Shipstuff, 2; 1 adulterated with finely ground corn bran.
- Mixed Wheat Feed, 2; equaled guaranty.

Cameron's Mill, Carrollton, Ky. Inspection sample of Cameron's Shipstuff analyzed, 1; sample whole ground wheat.

Cannelton Flour Mills, Cannelton, Ind. Inspection samples of Shipstuff and Screenings analyzed, 3; equaled guaranty.

Carlisle Milling Co., Carlisle, Ky. Inspection sample of Shipstuff analyzed, 1; equaled guaranty.

Cate Milling Co., Hopkinsville, Ky. Inspection sample of Wheat Bran and Shorts analyzed, 1; equaled guaranty.

Cecilian Milling Co., Cecilia, Ky. Inspection samples analyzed, 3.
Mixed Feed, 1; equaled guaranty.
Flour Middlings, 2; too low in protein and fat.

Chattanooga Feed Co., Chattanooga, Tenn. Inspection samples analyzed, 3.
Signal Fine Feed, 1; adulterated with oat hulls; too low in fat and too high in fiber.
Red Star Fine Feed, 1; corn product guaranteed but not present.
41% Cottonseed Meal, 1; too low in protein.

Cincinnati Grain & Hay Co., Cincinnati, O. Inspection samples analyzed, 15.
"No Better" Horse & Mule Feed, 3; equaled guaranty.
Hominy Feed, 2; 1 too low in fat.
Wheat Middlings, 2; equaled guaranty.
Oil Meal, 1; equaled guaranty.
Barley By-Product, 1; equaled guaranty.
"No Better" Dry Dairy Ration, 1; too low in protein; weed seeds added; no oil meal and hominy meal present.
Standard Dairy Sweets, 1; too high in fiber.
"No Better" Dry Egg Mash, 1; too low in protein.
60% Digester Tankage, 1; equaled guaranty.
Rye Middlings, 1; the sample is rye flour and below guaranty in every respect.
50% Meat Scraps, 1; equaled guaranty.

R. G. Clarke & Co., Memphis, Tenn. Inspection samples of "Red Ribbon" 41% Cottonseed Meal analyzed, 3; equaled guaranty.

Clarkson Milling Co., Clarkson, Ky. Inspection sample of Wheat Shorts analyzed, 1; too low in protein and fat.

Clell Coleman & Sons, Burgin, Ky. Inspection sample of Mixed Feed analyzed, 1; equaled guaranty.

The Colton Bros. Co., Bellefontaine, O. Inspection samples analyzed, 4.
King Mixed Feed, 1; equaled guaranty.
Wheat Middlings and Screenings, 1; too low in fat.
Pure Flaked Corn and Oat Feed, 1; equaled guaranty.
King Farm Feed, 1; equaled guaranty.

Community Roller Mills, Calhoun, Ky. Inspection sample of Mixed Wheat Feed analyzed, 1; equaled guaranty.

The Corno Mills Co., E. St. Louis, Ill. Inspection samples analyzed, 23.
Corno Laying Mash, 4; equaled guaranty, except 1 had no alfalfa meal.
Corno Dairy Feed, 4; equaled guaranty.
Corno Premium Feed, 2; equaled guaranty.
Corno Sweet Dairy Feed, 1; equaled guaranty.
Corno Sweet Feed, 1; equaled guaranty.
Nutro Dairy Feed, 3; equaled guaranty.
Corno Oat By-Product, 1; equaled guaranty.
Corno Feeding Oatmeal, 1; equaled guaranty.
Corno Rolled Oats, 1; equaled guaranty.
Corno Stock Feed, 3; 2 too low in protein and fat; 1 too high in fiber.
Shamrock Laying Mash, 1; equaled guaranty.
Pawnee Premium Feed, 1; equaled guaranty.

Corn Products Refining Co., New York, N. Y. Inspection samples analyzed, 2.
Buffalo Corn Gluten Feed, 1; equaled guaranty.
Diamond Corn Gluten Meal, 1; equaled guaranty.

The Cottonseed Products Co., Louisville, Ky. Inspection samples of "Eagle Brand" 41% Cottonseed Meal analyzed, 4; 1 too low in protein and 3 too high in fiber.

Crescent Roller Mills, Taylorsville, Ky. Inspection samples of Shipstuff analyzed, 3; equaled guaranty.

Diamond Mills, Evansville, Ind. Inspection samples analyzed, 5.
Evansville Dairy Feed, 2; 1 adulterated with flax plant by-product and below guaranty in protein; the other misbranded and too low in protein.
Evansville Scratch Feed, 1; equaled guaranty.
Red Crown Horse & Mule Feed, 1; equaled guaranty.
Diamond Brand 60% Tankage, 1; equaled guaranty.

The Albert Dickinson Co., Chicago, Ill. Inspection sample of Oasis Horse Feed analyzed, 1; equaled guaranty.

Dixie Mills Co., E. St. Louis, Ill. Inspection samples analyzed, 2.
Dixie Hog Feed, 1; too low in protein; no rice bran nor copra meal, though guaranteed.
Dixie Horse & Mule Feed, 1; too low in protein.

The Dorsel Co., Newport, Ky. Inspection sample of Corn Feed Meal analyzed, 1; equaled guaranty.

Dreyer Commission Co., St. Louis, Mo. Inspection samples analyzed, 3.
Mixed Wheat Feed, 2; equaled guaranty.
Wheat Bran and Screenings, 1; equaled guaranty.

T. W. Duncan, LaGrange, Ky. Inspection sample of Hy-Klas Poultry Mash analyzed, 1; too high in fiber.

Dunlop Milling Co., Clarksville, Tenn. Inspection samples analyzed, 5.
Middlings, 4; equaled guaranty.
Wheat Bran and Screenings, 1; equaled guaranty.

Dunmor Milling Co., Dunmor, Ky. Inspection sample of Mixed Feed analyzed, 1; too low in protein.

Eagle Roller Mills, Lawrenceburg, Ky. Inspection sample of Shipstuff analyzed, 1; equaled guaranty.

Early & Daniel Co., Cincinnati, O. Inspection samples analyzed, 28.
Tuxedo Dairy, 7; equaled guaranty.
Tuxedo Hog Ration, 2; equaled guaranty.
Tuxedo Chop, 2; 1 had cottonseed meal added; no barley grains.
Tuxedo Poultry Fattener, 1; oil meal added.
Tuxedo Developer, 1; rye and oats added.
Tuxedo Egg Mash, 1; equaled guaranty.
Tuxedo 60% Tankage, 2; equaled guaranty.
Eadan Dairy Feed, 2; 1 too low in protein.
Rex Scratch, 1; equaled guaranty.
41% Cottonseed Meal, 2; 1 too low in protein and too high in fiber.
Cerealia Sweets, 2; equaled guaranty.
Corn Feed Meal, 1; equaled guaranty.
Ducome Stock Feed, 1; wheat bran and alfalfa meal added.
Ground Oats, 1; equaled guaranty.
Ground Rye, 1; equaled guaranty.
Ground Barley, 1; too low in protein.
Alfalfa Meal, 1; equaled guaranty.

Edinger & Co., Louisville, Ky. Inspection samples analyzed, 4.
Arrow Egg & Growing Mash, 1; oil meal and bone meal added; too high in fiber.
Arrow Old Process Ground Oil Cake, 1; too low in protein.
Arrow Digester Tankage, 1; too low in protein.
Arrow Horse & Mule Feed, 1; too low in fat; no barley.

Elevator Milling Co., Springfield, Ill. Inspection sample of Ideal Hominy Feed analyzed, 1; equaled guaranty.

The Elite Roller Mills, Elkton, Ky. Inspection samples of Cream Dairy Feed analyzed, 3; 1 sample ingredients not as guaranteed.

T. M. Ellis Milling Co., Russellville, Ky. Inspection sample of Mixed Feed analyzed, 1; too low in fat.

Eminence Milling Co., Eminence, Ky. Inspection samples analyzed, 4.
Leader Mixed Feed, 3; all adulterated and too low in protein.
Leader Dairy Feed, 1; too low in protein and too high in fiber.

The Evansville Packing Co., Evansville, Ind. Inspection samples of 60% Feeding Tankage analyzed, 6; 1 too low in protein.

The Eversole Co., London, Ky. Inspection sample of Kentucky Pride analyzed, 1; too low in protein and fat.

Exchange Milling Co., Sturgis, Ky. Inspection sample of Mixed Brans analyzed, 1; too low in protein and fat.

Falls City Ice & Beverage Co., Louisville, Ky. Inspection sample of Brewers' Grains analyzed, 1; equaled guaranty.

Oscar Farmer & Sons, Louisville, Ky. Inspection samples of "We Kno" Feed analyzed, 3; equaled guaranty.

Farmers & Merchants Milling Co., Brooksville, Ky. Inspection sample of Mixed Wheat Feed analyzed, 1; equaled guaranty.

Faywood Milling Co., Faywood, Ky. Inspection sample of Chick-O Feed analyzed, 1; ingredients not as guaranteed.

Federal Mill & Elevator Co., Lockport, N. Y. Inspection sample of Lucky Hard Wheat Middlings and Screenings analyzed, 1; equaled guaranty.

J. H. Fedders & Sons, Covington, Ky. Inspection samples analyzed, 2.
Wheat Middlings, 1; adulterated with wheat bran.
Whole Wheat Feed, 1; equaled guaranty.

Ferger Bros., Cincinnati, O. Inspection samples analyzed, 3.
Wheat Middlings, 2; adulterated with wheat bran; too high in fiber.
Tip Top Wheat Feed, 1; equaled guaranty.

Ferncliff Feed & Grain Co., Louisville, Ky. Inspection samples analyzed, 12.
P. D. Q. Horse & Mule Feed, 2; excess oat hulls; too low in protein; too high in fiber.
P. D. Q. Egg Mash, 2; too low in protein and too high in fiber.
P. D. Q. Special Feed, 1; equaled guaranty.
P. D. Q. Dairy Feed, 1; oat hulls and weed seeds added.
P. D. Q. Scratch Feed, 1; equaled guaranty.
Cracker Jack Wheat Shorts, 2; equaled guaranty.
Cracker Jack Horse & Mule Feed, 1; equaled guaranty.
Cracker Jack Sweet Meal, 1; too low in protein.
Cracker Jack Special Feed, 1; equaled guaranty.

The Fleischmann Co., Cincinnati, O. Inspection sample of Dried Malt Grains analyzed, 1; equaled guaranty.

Flemingsburg Mills, Flemingsburg, Ky. Inspection sample of Wheat Bran analyzed, 1; too low in protein and fat.

E. H. Fletcher & Co., Nashville, Tenn. Inspection samples analyzed, 3.
Wheat Shorts, 2; equaled guaranty.
Lay More Scratch Feed, 1; ingredients not as guaranteed.

Flynn Bros. Grain & Feed Co., St. Louis, Mo. Inspection samples analyzed, 3.
Mixed Wheat Feed, 2; equaled guaranty.
Wheat Middlings, 1; equaled guaranty.

Henry Fruechtenicht, Louisville, Ky. Inspection samples analyzed, 4.
Blue Grass Horse Feed, 2; 1 too low in protein.
Blue Grass Dairy Feed, 1; ingredients not as guaranteed.
Blue Grass Poultry Feed, 1; too low in protein; no sunflower seed.

Fuhrer-Ford Milling Co., Mt. Vernon, Ind. Inspection sample of Wheat Shorts analyzed, 1; equaled guaranty.

Galesburg Molasses Feed Co., Galesburg, Ill. Inspection sample of Galesburg Special Scratch analyzed, 1; too low in fat; ingredients not as guaranteed.

Garrard Milling Co., Lancaster, Ky. Inspection sample of Mixed Feed analyzed, 1; too low in protein and fat.

General Commission Co., Kansas City, Mo. Inspection sample of Heart of America Mixed Feed analyzed, 1; too low in protein and fat; inferior product.

Germantown Milling Co., Germantown, Ky. Inspection sample of Shipstuff analyzed, 1; equaled guaranty.

Gilster Milling Co., Chester, Ill. Inspection sample of Wheat Bran analyzed, 1; equaled guaranty.

Glasgow Milling Co., Glasgow, Ky. Inspection sample of Mixed Wheat Feed analyzed, 1; equaled guaranty.

Glass Milling Co., Wilmore, Ky. Inspection sample of Glass Hi-Grade Feed analyzed, 1; equaled guaranty.

Edw. F. Goeke Sons, Evansville, Ind. Inspection samples analyzed, 7.
Big Gee Wheat Shorts, 2; 1 adulterated with wheat bran and too low in protein and fat.
Big Gee Chick Feed, 1; equaled guaranty.
Big Gee Horse & Mule Feed, 1; equaled guaranty.
Big Gee Scratch Feed, 1; misbranded as to ingredients and too low in fat.
Big Gee Egg Mash, 1; equaled guaranty.
Standard Scratch Feed, 1; wheat and weed seeds added.

Golden Grain Milling Co., E. St. Louis, Ill. Inspection samples analyzed, 7.
Golden Grain Milk Producer, 5; 1 too low in protein and fat; 2 too high in fiber.
Competitive Scratch Feed, 1; misbranded as to ingredients.
Golden Grain Calf Meal, 1; equaled guaranty.

Gordonsville Milling Co., Gordonsville, Ky. Inspection samples analyzed, 2.
Wheat Shorts, 1; too low in protein and fat.
Ground Wheat, 1; equaled guaranty.

Green Bros., Falls of Rough, Ky. Inspection sample of Mixed Feed analyzed, 1; equaled guaranty.

Gwinn Bros. & Co., Huntington, W. Va. Inspection samples analyzed, 3.
Fancy White Wheat and Rye Middlings, 2; too low in protein and fat; corn bran added.
Farm Feed, 1; equaled guaranty.

Hales & Edwards Co., Chicago, Ill. Inspection sample of Morning Glory Scratch Feed analyzed, 1; misbranded as to ingredients guaranteed.

Hall Seed Co., Louisville, Ky. Inspection samples analyzed, 6.
Climax Dairy Feed, 3; 2 contained excess of oat hulls.
Elk Dairy Feed, 1; weed seeds added.
Premium Dairy Feed, 1; equaled guaranty.
Halco Dairy Feed, 1; too low in protein; added grain screenings; much inferior to guaranty.

Hardinsburg Mill & Elevator Co., Hardinsburg, Ky. Inspection sample of Mixed Feed analyzed, 1; equaled guaranty.

Harlan-Lowe Milling Co., Bardwell, Ky. Inspection samples of "Harlomco" Mill Run analyzed, 2; equaled guaranty.

R. L. Harrison & Sons, Bagdad, Ky. Inspection samples of Empress analyzed, 2; too low in protein.

P. H. Harsha Milling Co., Portsmouth, O. Inspection sample of Magnolia Mixed Feed analyzed, 1; equaled guaranty.

Herbert Hawkins, Paducah, Ky. Inspection samples analyzed, 3.
Cockadoo Hen Scratch, 2; equaled guaranty.
Critic Mixed Wheat Feed, 1; equaled guaranty.

Edwin C. Hawkins, Paducah, Ky. Inspection samples analyzed, 2.
Aristocrat Mixed Feed, 1; equaled guaranty.
Golden Grain, 1; too low in protein and fat.

C. E. Haynes Milling Co., Waverly, O. Inspection samples of Wavo Mixed Feed analyzed, 2; too low in protein.

The Heldt Co., Evansville, Ind. Inspection samples analyzed, 2.
Thelco Mixed Wheat Feed, 1; equaled guaranty.
Thelco Wheat Shorts, 1; equaled guaranty.

Herndon-Carter Co., Louisville, Ky. Inspection sample of "H. C. Co. Brand" Scratch Feed analyzed, 1; misbranded as to ingredients guaranteed.

W. E. Hess & Co., Louisville, Ky. Inspection samples of Hess Egg Mash analyzed, 2; too low in protein and fat.

Home Milling Co., Greenville, Ky. Inspection sample of Mixed Feed analyzed, 1; too low in fat.

Hopkins Fertilizer Co., New Albany, Ind. Inspection samples analyzed, 2.
Pigrow, 1; too low in protein.
Hopkins Meat Scraps, 1; equaled guaranty.

Hopkinsville Milling Co., Hopkinsville, Ky. Inspection samples of Wheat Middlings analyzed, 2; both too high in fiber; 1 too low in protein.

Horse Cave Mills, Horse Cave, Ky. Inspection samples of Pure Bran and Shorts analyzed, 5; 1 too low in protein; 1 too low in fat.

Humphreys-Godwin Co., Memphis, Tenn. Inspection samples analyzed, 11.

Danish Brand Cottonseed Feed, 4; 2 too high in fiber.

"Dixie Brand" Cottonseed Meal, 7; equaled guaranty except 1 too low in protein and too high in fiber.

Igleheart Bros., Evansville, Ind. Inspection samples of Pure Wheat Middlings analyzed, 2; 1 too low in fat.

Illinois Feed & Elevator Co., Bloomington, Ill. Inspection samples analyzed, 3.

Whole Ground Oats, 2; equaled guaranty.

Whole Ground Barley, 1; equaled guaranty.

International Sugar Feed No. 2 Co., Memphis, Tenn. Inspection samples analyzed, 5.

International Special Dairy Feed, 2; 1 ground weed seeds added; 1 too low in fat.

International Jewel Mixed Feed, 1; largely oat hulls; too low in fat.

Wheat Grey Shorts and Screenings, 1; too high in fiber.

International Makemeat Hog Feed, 1; equaled guaranty.

Jellico Grocery Co., Jellico, Tenn. Inspection sample of Cyclone Horse & Mule Feed analyzed, 1; equaled guraanty.

W. B. Johnson & Co., Memphis, Tenn. Inspection sample of "Supreme Brand" Cottonseed Meal analyzed, 1; too low in protein.

The E. Kahn's Sons Co., Cincinnati, O. Inspection sample of Digester Tankage analyzed, 1; equaled guaranty.

Kasco Mills, Toledo, O. Inspection samples analyzed, 4.

Kasco Flour Middlings, 1; too low in protein; weed seeds added.

Kasco Corn Feed Meal, 1; equaled guaranty.

Cracked Corn, 1; too low in fat.

Beats All Milk Grains, 1; equaled guaranty.

Kehlor Flour Mills Co., St. Louis, Mo. Inspection sample of Brilliant Grey Wheat Middlings analyzed, 1; equaled guaranty.

Keister Milling Co., Huntington, W. Va. Inspection samples analyzed, 2.

Lotus Wheat and Rye Middlings, 1; too high in fiber; grain screenings added.

Fancy White Middlings, 1; too low in protein and fat.

George Keller, Newport, Ky. Inspection samples analyzed, 8.

Corn and Oat Chops, 2; 1 too low in protein.

Ground Barley, 1; equaled guaranty.

Ground Oats, 1; equaled guaranty.
Ground Rye, 1; equaled guaranty.
Corn Feed Meal, 1; equaled guaranty.
Middlings and Screenings, 1; equaled guaranty.
Mixed Wheat Feed and Screenings, 1; equaled guaranty.

Kentucky Farm Bureau Federation, Louisville, Ky. Inspection samples of Farm Bureau Fulpail Dairy Ration 20%, analyzed, 2; equaled guaranty except 1 contained weed seeds and did not contain peanut meal.

Kentucky Feed & Grain Co., Louisville, Ky. Inspection samples analyzed, 36.

Marshall's 24% Dairy Feed, 5; 2 equaled guaranty; 2 too low in protein; 2 adulterated with screenings and weed seeds; 1 adulterated with flax plant by-product.

Kentucky Star Horse & Mule Feed, 3; 2 adulterated with screenings; 1 with flax plant by-product.

Premo Poultry Mash, 3; 1 too low in protein, 1 too low in fat; 2 ingredients not as guaranteed.

Success Horse & Mule Feed, 3; 1 equaled guaranty; 2 adulterated with flax plant by-product.

Success Middlings, 4; 1 equaled guaranty; 3 adulterated with ground wheat bran.

Marshall's Horse & Mule Feed, 2; equaled guaranty.

Kentucky Star Dairy Feed, 2; both adulterated with flax plant by-product and weed seeds; 1 too low in protein.

Premo Baby Chick Feed, 2; contained weed seeds; ingredients not as guaranteed; 1 too low in protein.

Premo Laying Mash, 2; both contained screenings and weed seeds.

Premo Dairy Feed, 2; both adulterated with flax plant by-product, screenings and weed seeds; 1 too low in protein.

Success 24% Dairy Feed, 1; adulterated with flax plant by-product; ingredients not as guaranteed.

Premo Growing Mash, 1; too low in fat; contained screenings and weed seeds.

Premo Baby Chick Feed, 1; ingredients not as guaranteed.

Premo Horse & Mule Feed, 1; screenings added.

Premo Hog Meal, 1; equaled guaranty.

Marshall's Sheep Feed, 1; too low in protein; contained weed seeds.

Ground Oats, 1; equaled guaranty.

Kentucky Chemical Manufacturing Co., Covington, Ky. Inspection sample of K. C. Special Meat Scraps analyzed, 1; equaled guaranty.

King Midas Milling Co., Minneapolis, Minn. Inspection samples analyzed, 3.
Cloverleaf Pure Flakes, 1; equaled guaranty.
Standard Feed, 1; contained weed seeds.
Snowball Wheat Flour Middlings, 1; too high in fiber.

Burg Kinner, Greenup, Ky. Inspection sample of Flour Middlings analyzed, 1; sample was wheat middlings.

Klarer Provision Co., Louisville, Ky. Inspection samples of Digester Meat and Bone Tankage analyzed, 2; equaled guaranty.

Chas. A. Krause Milling Co., Milwaukee, Wis. Inspection samples analyzed, 2.
Badger 16½% Sweet Dairy Feed, 1; too high in fiber.
Amerikorn Dairy Ration, 1; equaled guaranty.

Krey Packing Co., St. Louis, Mo. Inspection samples of X-Ray Digester Tankage analyzed, 2; too low in protein.

Kuttawa Milling Co., Kuttawa, Ky. Inspection sample of Mixed Feed analyzed, 1; equaled guaranty.

The Ladish Co., Milwaukee, Wis. Inspection sample of Yellow Corn Feed Meal analyzed, 1; adulterated with ground screenings and oat hulls; shipment refused sale.

The Larabee Flour Mills Corporation, Kansas City, Mo. Inspection samples of Red Dog Flour analyzed, 3; equaled guaranty.

The Larrowe Milling Co., Detroit, Mich. Inspection samples analyzed, 4.
Larro, 3; equaled guaranty.
Larrowe Hog Feed, 1; equaled guaranty.

Lawrenceburg Roller Mills Co., Lawrenceburg, Ind. Inspection sample of "Snowflake" Middlings analyzed, 1; equaled guaranty.

Lexington Roller Mills Co., Lexington, Ky. Inspection samples analyzed, 4.
"Thoroughbred" Feed, 2; equaled guaranty.
Hen Fruit (Chick Size), 1; too low in protein and fat; ingredients not as guaranteed.
Queen Bess Dairy Feed, 1; contained weed seeds.

Lewisburg Milling Co., Lewisburg, Ky. Inspection sample of Wheat Bran analyzed, 1; too low in protein and contained corn bran.

Loretto Mill Co., Loretto, Ky. Inspection sample of Shipstuff analyzed, 1; equaled guaranty.

Louisiana State Rice Milling Co., New Orleans, La. Inspection samples of Rice Bran analyzed, 2; too high in fiber.

Louisville Cereal Mill Co., Louisville, Ky. Inspection samples analyzed, 4.
Nonesuch Poultry Feed, 2; only trace sunflower seed in each.
Supreme Poultry Fattening Food, 1; much too low in protein.

Plymouth Crate Fattening Station Feed, 1; too low in protein and fat; too high in fiber.

Louisville Milling Co., Louisville, Ky. Inspection samples analyzed, 4.
Sonny South Wheat Shorts and Screenings, 2; equaled guaranty.
Sonny South Mixed Wheat Feed and Screenings, 1; equaled guaranty.
Sonny South Hominy Feed, 1; too low in fat.

Louisville Seed Co., Louisville, Ky. Inspection samples analyzed, 4.
Gold Medal Dairy Feed, 2; both adulterated with flax plant by-product; 1 too low in protein; misbranded.
Gold Medal Scratch Feed, 1; equaled guaranty.
Paragon Horse & Mule Feed, 1; equaled guaranty.

L. B. Lovitt & Co., Memphis, Tenn. Inspection samples of "Lovitt Brand" Cottonseed Meal analyzed, 2; 1 too low in protein and too high in fiber.

Lycan & Purcell, LaFayette, Ky. Inspection sample of Wheat Bran analyzed, 1; equaled guaranty.

Magnolia Flour Mills, Maysville, Ky. Inspection sample of Mill Run Mixed Wheat Feed analyzed, 1; equaled guaranty.

The B. Manischewitz Co., Cincinnati, O. Inspection samples of Matzo Sweepings analyzed, 2; 1 too low in protein and fat.

The Mann Bros. Co., Buffalo, N. Y. Inspection sample of Argentine Linseed Oil Meal analyzed, 1; equaled guaranty.

Marfield Grain Co., Minneapolis, Minn. Inspection sample of Barley Feed and Screenings analyzed, 1; too high in fiber.

Marianna Sales Co., Memphis, Tenn. Inspection samples of White Mule Brand 41% Cottonseed Meal analyzed, 5; 1 too low in protein.

Marion Milling Co., Marion, Ky. Inspection samples analyzed, 2.
Winter Wheat Middlings, 1; equaled guaranty.
Mixed Wheat Feed and Screenings, 1; equaled guaranty.

L. D. McCarley & Co., Auburn, Ky. Inspection sample of Mixed Feed analyzed, 1; too low in protein.

Memphis Cotton Hull Fibre, Memphis, Tenn. Inspection sample of Cottonseed Feed analyzed, 1; equaled guaranty.

Memphis Cottonseed Products Co., Memphis, Tenn. Inspection samples of Durham 41% analyzed, 2; 1 too high in fiber.

Miami Elevator, Elizabethtown, O. Inspection samples of Miami Dairy Feed analyzed, 5; 3 equaled guaranty; 2 highly adulterated with oat hulls and flax plant by-product and foreign material.

Midget Milling Co., Providence, Ky. Inspection sample of Flavo Mixed Feed analyzed, 1; too low in protein.

Model Roller Mills Co., Smith's Grove, Ky. Inspection samples of Mixed Feed analyzed, 2; 1 had excess of screenings and too low in fat.

Morganfield Roller Mills, Morganfield, Ky. Inspection samples analyzed, 4.
White Rose Scratch, 2; too low in fat; ingredients not as guaranteed.
White Rose Shorts, 1; sample low grade flour and too low in protein and fat.
White Rose Mixed Feed, 1; equaled guaranty.

Morris & Co., Chicago, Ill. Inspection samples of Big Sixty Meat Meal Digester Tankage analyzed, 2; equaled guaranty.

C. Morrison & Son, Glasgow, Ky. Inspection sample of Mixed Feed analyzed, 1; too low in protein and fat.

Morristown Flour Mills, Morristown, Tenn. Inspection samples analyzed, 2.
Corn Feed Meal, 1; screenings added; too low in fat.
Mixed Wheat Feed, 1; equaled guaranty.

Mountain City Mill Co., Chattanooga, Tenn. Inspection sample of Blue Cow Fine Feed analyzed, 1; equaled guaranty.

Mystic Mills, Sioux City, Ia. Inspection samples analyzed, 4.
Blackhawk Poultry Feed, 1; ingredients not as guaranteed.
Mohawk Poultry Feed, 1; weed seeds added.
Sioux Developing Feed, 1; oats and weed seeds added.
Sioux Chick Feed, 1; weed seeds added.

National Feed Co., St. Louis, Mo. Inspection samples analyzed, 2.
Hominy Feed, 1; too high in fiber.
Wheat Bran and Screenings, 1; too high in fiber.

R. N. Neal & Co., Memphis, Tenn. Inspection sample of Triangle Brand 41% Cottonseed Meal analyzed, 1; equaled guaranty.

New Era Mills, Allensville, Ky. Inspection samples analyzed, 2.
Mixed Feed, 1; excess of corn bran; too low in protein and fat.
Ground Wheat Feed, 1; sample is mixed wheat feed.

The Newsome Feed & Grain Co., Pittsburg, Pa. Inspection samples of Palmo Midds analyzed, 2; 1 too low in protein.

Nolin Milling Co., Nolin, Ky. Inspection samples of Shipstuff analyzed, 2; 1 too low in protein, the other too high in fiber.

Northern Illinois Cereal Co., Chicago, Ill. Inspection samples analyzed, 2.
Gold Medal Scratch Feed, 1; weed seeds and inferior wheat added.
Gold Medal Chick Grains, 1; too low in fat.

W. C. Nothern, Memphis, Tenn. Inspection sample of Bee Brand Cottonseed Meal analyzed, 1; equaled guaranty.

Nowak Milling Corporation, Buffalo, N. Y. Inspection samples analyzed, 8.
Marathon Laying Mash (with Buttermilk), 1; equaled guaranty.
Marathon Dairy Feed, 1; equaled guaranty.
Marathon Horse Feed, 1; equaled guaranty.

Fidelity Dairy Feed, 1; equaled guaranty.
Domino 24½% Dairy Feed, 1; equaled guaranty.
Domino Fancy Sifted Cracked Corn, 1; equaled guaranty.
Domino Butterine Dairy Feed, 1; predominating ingredient is screenings with weed seeds.
Pep-O-Lene Horse Feed, 1; equaled guaranty.

Owensboro Milling Co., Owensboro, Ky. Inspection sample of Star Dairy Feed analyzed, 1; too low in protein.

Paducah Milling Co., Paducah, Ky. Inspection samples analyzed, 3.
Wheat Shorts, 1; adulterated with corn bran, wheat bran and screenings; too low in protein and fat; too high in fiber.
Laying Mash, 1; equaled guaranty.
Dairy Feed, 1; equaled guaranty.

Paris Milling Co., Paris, Ky. Inspection samples of Mixed Feed analyzed, 2; equaled guaranty.

Parks & Son, Richmond, Ky. Inspection sample of "Cream of Cream" Dairy Feed analyzed, 1; misbranded and too low in protein.

Park & Pollard Co., Chicago, Ill. Inspection samples analyzed, 2.
Wizard Scratch Grains, 1; ingredients not as guaranteed.
"Stevens 44" Dairy Ration, 1; too low in protein; ingredients not as guaranteed.

Parksville Roller Mills, Parksville, Ky. Inspection sample of Mixed Feed analyzed, 1; sample a good mixed wheat feed.

Pembroke Milling Co., Pembroke, Ky. Inspection sample of Mixed Feed analyzed, 1; equaled guaranty.

Pendleton Flour Mills, Falmouth, Ky. Inspection sample of Mixed Wheat Feed analyzed, 1; equaled guaranty.

Peoples Roller Mills, Sebree, Ky. Inspection sample of Mixed Feed analyzed, 1; equaled guaranty.

Perin-Brouse-Skidmore Grain & Milling Co., Cincinnati, O. Inspection samples analyzed, 3.
Whole Ground Wheat, 1; equaled guaranty.
V. G. Malted Stock Feed, 1; too high in fiber.
Choice Hominy Feed, 1; too low in protein.

M. C. Peters Mill Co., Omaha, Nebr. Inspection samples of Peters Arab Horse Feed analyzed, 2; equaled guaranty.

Philpot Mills, Philpot, Ky. Inspection sample of Mixed Feed analyzed, 1; equaled guaranty.

Phoenix Flour Mills, Evansville, Ind. Inspection samples analyzed, 3.
Wheat Shorts & Screenings, 2; equaled guaranty.
Mixed Wheat Feed & Screenings, 1; equaled guaranty.

Pink & Co., Cairo, Ill. Inspection sample of Wheat Bran and Screenings analyzed, 1; equaled guaranty.

Pioneer Mills, Louisville, Ky. Inspection sample of Pioneer Scratch Feed analyzed, 1; misbranded as to ingredients.

Polo Mills Co., E. St. Louis, Ill. Inspection samples of Diamond Dairy Feed analyzed, 2; 1 too low in protein, too high in fiber and had excess of weed seeds; other equaled guaranty.

R. C. Poage Milling Co., Ashland, Ky. Inspection samples analyzed, 2.
Standard Feed, 1; too low in protein.
Wheat Middlings, 1; equaled guaranty.

Prairie State Milling Co., Chicago, Ill. Inspection sample of Early Egg Scratch analyzed, 1; misbranded; contained grain screenings, weed seeds, inferior wheat and pin oats.

Pratt Food Co., Philadelphia, Pa. Inspection samples analyzed, 4.
Pratt's Supreme Horse Feed, 1; equaled guaranty.
Pratt's Victory Laying Mash with Buttermilk, 1; equaled guaranty.
Pratt's Victory Dairy Ration, 1; equaled guaranty.
Pratt's Special Scratch Feed, 1; equaled guaranty.

Purity Oats Co., Chicago, Ill. Inspection samples analyzed, 2.
Iowa Dairy Feed, 1; equaled guaranty.
Iowa Scratch Feed, 1; oats and weed seeds added.

The Quaker Oats Co., Chicago, Ill. Inspection samples analyzed, 5.
Ful-O-Pep Chick Starter, 1; equaled guaranty.
Ful-O-Pep Growing Mash, 1; equaled guaranty.
Sugared Schumacher Feed, 1; equaled guaranty.
Big "Q" Dairy Feed, 1; equaled guaranty.
Buckeye Feed, 1; equaled guaranty.

Ralston Purina Co., St. Louis, Mo. Inspection samples analyzed, 11.
Purina Cow Chow Feed, 3; equaled guaranty.
Purina Chicken Chowder Feed, 2; equaled guaranty.
Purina Chick Startena (with Buttermilk), 1; equaled guaranty.
Purina Chicken Fatena Feed, 1; too low in fat.
Purina Omolene Feed, 1; equaled guaranty.
Star Special Feed, 1; too high in fiber.
Bulky Las Feed, 1; too high in fiber.
XX Good Feed with Molasses, 1; equaled guaranty.

Randolph Milling Co., Bandana, Ky. Inspection sample of O'Joy analyzed, 1; equaled guaranty.

Rapier Sugar Feed Co., Owensboro, Ky. Inspection samples analyzed, 23.
Rapier's Creamo Dairy Feed, 6; 4 contained foreign fibrous materials through use of screenings; others equaled guaranty.
Rapier's Big Four Horse & Mule Feed, 3; 2 contained screenings; 1 too low in protein.
Rapier's Otene Horse Feed, 2; 1 contained foreign material and too high in fiber.
Rapier's Golden Rod Dairy Feed, 2; ingredients not as guaranteed.
Rapier's Teamster Horse & Mule Feed, 2; equaled guaranty.

Rapier's Jersey Cream Dairy Feed, 2; 1 equaled guaranty; 1 ingredients not as guaranteed.
Rapier's 90% Grain Horse & Mule Feed, 1; too low in protein.
Rapier's Pig Meal, 1; equaled guaranty.
Rapier's Red Wing Horse & Mule Feed, 1; equaled guaranty.
Blue Hen Laying Mash, 2; equaled guaranty.
Cottonseed Meal, 1; too high in fiber.

Richardson Milling Co., Horse Cave, Ky. Inspection sample of Mixed Wheat Feed analyzed, 1; equaled guaranty.

R. D. Riedling, Louisville, Ky. Inspection sample of Chicken Mash analyzed, 1; equaled guaranty.

Ritter-Hennings Co., Louisville, Ky. Inspection sample of Shurpleez Scratch analyzed, 1; too low in protein and ingredients not as guaranteed; misbranded.

Riverside Mills, Adairville, Ky. Inspection samples of Mixed Feed analyzed, 4; 3 too low in protein; all too low in fat.

Roberts Cotton Oil Co., Cairo, Ill. Inspection sample of Diamond R 43% Cottonseed Meal analyzed, 1; equaled guaranty.

Rockport Milling Co., Rockport, Ind. Inspection sample of Mixed Feed analyzed, 1; equaled guaranty.

Roszell Bros., Lexington, Ky. Inspection sample of Roszbro Horse Feed analyzed, 1; equaled guaranty.

Sandefur's Cereal Mill, Owensboro, Ky. Inspection sample of Hominy Feed analyzed, 1; too low in fat.

Schreiber Milling & Grain Co., Minneapolis, Minn. Inspection samples analyzed, 4.
Wheatco Feed, 1; too low in protein; too high in fiber.
Fine Ground Whole Barley, 3; 2 too low in protein; all too high in fiber; 1 oats added.

Schultz-Baujan & Co., Beardstown, Ill. Inspection sample of Sunbeam Pure White Shorts and Screenings analyzed, 1; equaled guaranty.

Scroggins Grain Co., Minneapolis, Minn. Inspection sample of Ground Oats and Screenings analyzed, 1; too high in fiber.

Sebree Roller Mills, Sebree, Ky. Inspection sample of Cream Patent Feed analyzed, 1; equaled guaranty.

Security Mills & Feed Co., Knoxville, Tenn. Inspection samples analyzed, 5.
Security Dairy Feed, 2; equaled guaranty.
Security Scratch Feed, 1; equaled guaranty.
"Big S" Horse Feed, 1; too low in protein.
"Victor" Scratch Feed, 1; equaled guaranty.

Shelton Mills, Chattanooga, Tenn. Inspection sample of "Red Diamond" Fine Feed analyzed, 1; equaled guaranty.

Shepherdsville Roller Mills, Shepherdsville, Ky. Inspection sample of Bullitt Dairy Feed analyzed, 1; too low in protein.

The Sherwin-Williams Co., Cleveland, O. Inspection sample of S. W. C. Linseed Oil Meal analyzed, 1; equaled guaranty.

The Simmons Milling Co., Cincinnati, O. Inspection samples analyzed, 4.
Decko Poultry & Fattening Feed, 2; equaled guaranty.
Simco 24 Dairy Feed, 1; misbranded; very deficient in protein.
Wheat Bran and Screenings, 1; equaled guaranty.

J. Allen Smith & Co., Knoxville, Tenn. Inspection samples of Peerless analyzed, 3; equaled guaranty.

Southern Fuel & Feed Co., Nashville, Tenn. Inspection samples of Rice Bran analyzed, 2; equaled guaranty.

Southern Feed & Grain Co., Louisville, Ky. Inspection samples analyzed, 7.
Sugar Dairy Feed, 3; 1 very deficient in protein; all contained excessive amount of oat hulls.
Eagle Dairy Feed, 2; excessive amount of oat hulls; only small amount of alfalfa meal.
Standard Horse & Mule Feed, 1; equaled guaranty.
Diamond Mixed Wheat Feed and Screenings, 1; equaled guaranty.

Southern Seed Co., Louisville, Ky. Inspection samples analyzed, 3.
Economy Wheat Mixed Feed and Screenings, 1; too high in fiber; excess of weed seeds.
Ideal Horse & Mule Feed, 1; equaled guaranty.
Diamond Dairy Feed, 1; adulterated with oat hulls, screenings and weed seeds; too low in protein; misbranded.

Sparks Milling Co., Alton, Ill. Inspection sample of Try Me Mixed Wheat Feed and Screenings analyzed, 1; equaled guaranty.

Woodford Spears & Sons, Paris, Ky. Inspection samples of Mixed Feed analyzed, 3; 1 contained excessive amount of screenings; 1 too low in protein.

Spencer Kellogg & Son, Buffalo, N. Y. Inspection sample of Kellogg's Pure Old Process Oil Meal analyzed, 1; equaled guaranty.

Standard Roller Mill Co., Cerulean, Ky. Inspection samples analyzed, 2.
Jersey Feed, 1; too high in fiber.
White Wheat Middlings, 1; equaled guaranty.

Star & Crescent Milling Co., Chicago, Ill. Inspection sample of Wheat Middlings analyzed, 1; equaled guaranty.

Star Milling Co., Clinton, Ky. Inspection samples analyzed, 2.
Mixed Feed, 1; equaled guaranty.
Wheat Shorts, 1; equaled guaranty.

The Sugarine Co., Owensboro, Ky. Inspection samples analyzed, 19.
The National Dairy Ration, 3; equaled guaranty.
Universal Dairy Feed, 2; equaled guaranty.

Sugarine Dairy Feed, 2; 1 too low in protein; both contained foreign material.

Ideal Horse & Mule Feed, 3; all much too low in protein; 2 had excess of oat hulls; 1 had added grain screenings.

Sugarine Pig Meal, 1; too high in fiber; contained weed seeds.

Universal Horse & Mule Feed, 1; too low in protein.

Hi-Grain Horse Feed, 1; equaled guaranty.

Record Horse Feed, 1; equaled guaranty.

Record Dairy Feed, 1; equaled guaranty.

Ideal Scratch Feed, 1; too low in protein; ingredients not as guaranteed; misbranded.

Record Scratch Feed, 1; ingredients not as guaranteed; misbranded.

Suco Scratch Feed, 1; ingredients not as guaranteed; misbranded.

Mo-Egg Scratch Feed, 1; added oats and weed seeds.

Sunnyside Milling Co., Evansville, Ind. Inspection samples of Winter Wheat Shorts and Screenings analyzed, 2; 1 too low in protein.

D. B. Sutherland & Sons, Bloomfield, Ky. Inspection samples analyzed, 5.

Sutherland's Feed, 4; 1 contained added corn product; all equaled chemical guaranty.

Sutherland's Hen Feed, 1; too low in protein.

Sutherland Flour Mills Co., Cairo, Ill. Inspection samples analyzed, 4.

Daisy Dairy Feed, 2; 1 too high in fiber and contained weed seeds.

Wheat Middlings and Screenings, 1; equaled guaranty.

Wheat Bran, 1; equaled guaranty.

Swift & Co., Chicago, Ill. Inspection samples analyzed, 3.

Swift's Meat and Bone Scraps, 2; 1 too low in protein.

60% Digester Tankage, 1; equaled guaranty.

Tarkio Molasses Feed Co., Kansas City, Mo. Inspection sample of Tarkio Molasses Feed analyzed, 1; equaled guaranty.

Geo. P. Taylor Co., Somerset, Ky. Inspection sample of Winter Wheat Mixed Feed analyzed, 1; equaled guaranty.

Tell City Flouring Mills, Tell City, Ind. Inspection samples analyzed, 4.

Wheat Middlings and Screenings, 2; adulterated with corn bran.

Hoosier Poultry Feed, 1; contained oats and weed seeds in which were found corn cockle and wild onions.

"A-Mixed Feed," 1; equaled guaranty.

Texas Cake & Linter Co., Dallas, Tex. Inspection samples of "Texoma Brand" 43% Cottonseed Meal analyzed, 4; 3 much too low in protein.

W. W. Thompson & Co., Scottsville, Ky. Inspection sample of Wheat Bran analyzed, 1; equaled guaranty.

Transit Milling Co., Cincinnati. O. Inspection sample of Transit Horse Feed analyzed, 1; had a dead apparance and a musty odor.

Tri-State Vegi Feed Co., Cincinnati, O. Inspection samples of Sugar Jack Dairy Feed analyzed, 3; equaled guaranty.

The Ubiko Milling Co., Cincinnati, O. Inspection samples analyzed, 11.
"Union Grains" Ubiko Biles Ready Dairy Ration, 6; equaled guaranty.
Crusader Horse Feed, 1; equaled guaranty.
Ubiko Buttermilk Egg Mash, 2; equaled guaranty.
Ubiko Egg Mash, 1; equaled guaranty.
Ubiko Chick Feed, 1; equaled guaranty.

United Bi-Products Co., Chicago, Ill. Inspection sample of "Success Brand"' Digester Tankage analyzed, 1; equaled guaranty.

Valier & Spies Milling Co., St. Louis, Mo. Inspection samples analyzed, 3.
Valier's Mixed Wheat Feed and Screenings, 2; equaled guaranty.
Valier's Wheat Middlings and Screenings, 1; too low in fat.

Vanhoose-Adams Co., Ashland, Ky. Inspection samples analyzed, 3.
Red Diamond, 1; contains weed seeds.
Black Diamond Horse Feed, 1; equaled guaranty.
Purity Middlings, 1; too low in protein and contained weed seeds.

The Wallace Milling Co., Huntington, Ind. Inspection sample of Pure Wheat Middlings analyzed, 1; adulterated with finely ground oat hulls; much too low in protein and fat and too high in fiber.

The Washington Milling Co., Washington, C. H., O. Inspection sample of Wheat Bran and Screenings analyzed, 1; too low in protein.

P. J. Weisenberger & Son, Midway, Ky. Inspection sample of Mixed Mill Feed analyzed, 1; equaled guaranty.

A. C. Westervelt & Co., Memphis, Tenn. Inspection sample of 43% Cottonseed Meal analyzed, 1; equaled guaranty.

A. P. White & Co., Cadiz, Ky. Inspection sample of National analyzed, 1; too low in fat.

Wilson & Co., Chicago, Ill. Inspection samples of "Red W Brand" Digester Tankage analyzed, 3; equaled guaranty.

Winchester Roller Mills, Winchester, Ky. Inspection samples analyzed, 7.
Mixed Feed, 3; 2 too low in protein and contained excess of screenings.
Perfection Horse Feed, 3; 1 adulterated with flax plant by-product and screenings.
Perfection Dairy Feed, 1; ingredients not as guaranteed; too high in fiber.

Winer Feed Co., Chattanooga, Tenn. Inspection sample of A-1 Corn Feed Meal analyzed, 1; equaled guaranty.

J. F. Wolcott & Co., S. Carrollton, Ky. Inspection sample of Wolcott's Feed analyzed, 1; too low in protein.

Wood, Stubbs & Co., Louisville, Ky. Inspection samples analyzed, 4.
Special Scratch Feed, 2; contained weed seeds; ingredients not as guaranteed; misbranded.
200-Egg Scratch, 1; ingredients not as guaranteed; misbranded.
Shawnee Pigeon Feed, 1; too low in fat; ingredients not as guaranteed; misbranded.

Woodburn Roller Mills, Woodburn, Ky. Inspection sample of Mixed Feed analyzed, 1; equaled guaranty.

Woolcott Flour Mills, Lexington, Ky. Inspection samples analyzed, 5.
Woolcott's Mixed Feed, 2; 1 too low in protein.
Pride of Kentucky Horse Feed, 1; equaled guaranty.
Woolcott's Red Diamond Baby Chick Feed, 1; too low in protein; cheat, inferior wheat and weed seeds present; misbranded.
Woolcott's Green Diamond Horse Feed, 1; too low in protein.

Yopp Seed Co., Paducah, Ky. Inspection samples analyzed, 2.
Yopp's Laying Mash, 1; too high in fiber.
Old Process Linseed Oil Meal, 1; equaled guaranty.

Young & Bishop, Providence, Ky. Inspection sample of Mixed Feed analyzed, 1; equaled guaranty.

Zabel Milling Co., New Albany, Ind. Inspection samples analyzed, 3.
Flour Middlings and Screenings, 1; too low in protein and fat.
Mixed Wheat Feed & Screenings, 2; too low in protein .

Ziliak & Schafer Milling Co., Evansville, Ind. Inspection samples analyzed, 5.
Imperial Dairy Feed, 2; equaled guaranty.
Triangle Scratch Feed, 1; ingredients not as guaranteed; misbranded.
Elite Sugared Shorts, 1; too low in fat; material is bran and not shorts.
Triangle Horse & Mule Feed, 1; equaled guaranty